# ENVIRONMENTAL ASSESSMENT/ PROGRAMMATIC SECTION 4(f) EVALUATION

for

the Proposed Improvements of I-196 from east of US-131 to the I-196/I96 junction; I-96 from west of Leonard Street to west of Cascade Road, and M-37/M-44 (East Beltline) from south of M-21 to north of the Knapp Street Intersection in the City of Grand Rapids and Grand Rapids Township, Kent County, Michigan



Prepared by the:

#### MICHIGAN DEPARTMENT OF TRANSPORTATION

In cooperation with the

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION



## ENVIRONMENTAL ASSESSMENT/ PROGRAMMATIC SECTION 4(f) EVALUATION

for

the Proposed Improvements of I-196 from east of US-131 to the I196/I96 junction; I-96 from west of Leonard Street to west of
Cascade Road, and M-37/M-44 (East Beltline) from south of M-21 to
north of the Knapp Street Intersection
in the City of Grand Rapids and Grand Rapids Township, Kent
County, Michigan

PREPARED by the

MICHIGAN DEPARTMENT OF TRANSPORTATION in Cooperation with the U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED:	
11/04/05	Devid Calaluse
Date	for the Federal Highway Administration

For additional information concerning the proposed project, or this document, contact:

Mr. Ronald Krauss Area Engineer Federal Highway Administration 315 West Allegan Street, Rm. 201 Lansing, MI 48933 Phone: (517) 702-1822

Ms. Margaret Barondess, Manager Environmental Section Michigan Department of Transportation P.O. Box 30050 Lansing, MI 48909 Phone: (517) 335-2621

#### **PREFACE**

The National Environmental Policy Act (NEPA) of 1969 requires that the social, economic, and natural environmental impacts of any proposed action of the federal government be analyzed for decision-making and public information purposes. There are three classes of action. Class I Actions, which are those that may significantly affect the environment, require the preparation of an Environmental Impact Statement (EIS). Class II Actions (categorical exclusions) are those that do not individually or cumulatively have a significant effect on the environment and do not require the preparation of an EIS or an Environmental Assessment (EA). Class III Actions are those for which the significance of impacts is not clearly established. Therefore, Class III Actions require the preparation of an EA to determine the significance of impacts and the appropriate environmental document to be prepared - either an EIS or a Finding of No Significant Impact (FONSI).

This document is an EA for the proposed improvements to the I-196, I-96 and M-37/M-44 (East Beltline) roadway systems located in the city of Grand Rapids and Grand Rapids Township, Kent County, Michigan. It describes and analyzes the no build and other alternatives, and the measures taken to minimize harm to the project area. It will be distributed to the public and to various federal, state, and local agencies for review and comment. A public hearing on this document will be held to discuss the proposed project in relation to the information disclosed in this EA. If review and comment by the public and interested agencies support the determination of "no significant impact", this EA will be forwarded to the Federal Highway Administration (FHWA) with a recommendation that a FONSI be issued. If it is determined that the preferred alternative will have significant impacts that cannot be mitigated, the preparation of an EIS will be required.

This document also contains a Programmatic Section 4(f) Evaluation for the proposed improvements. Section 4(f) of the Department of Transportation Act requires that an evaluation be prepared when the proposed action may have an adverse effect on a property eligible for or listed on the National Register of Historic Places or may impact publicly owned land from a park, recreation area, or wildlife/waterfowl refuge of national, state or local significance. The proposed project will impact a non-motorized recreational trail. This evaluation must determine that there is no prudent and feasible alternative that avoids the 4(f) impact, and that all possible measures to minimize harm have been taken, before the project may proceed.

This document was prepared by the Michigan Department of Transportation (MDOT), in cooperation with the Federal Highway Administration (FHWA). The study team includes representatives from the following areas within the Michigan Department of Transportation: Design, Project Planning, Real Estate, Construction and Technology, Traffic and Safety, and the Grand Region. Information contained in this Environmental Assessment was also furnished by other federal and state agencies, local units of government, public interest groups, and individual citizens.

## TABLE OF CONTENTS

		<u>page</u>
PREFACE	DRODOGED DROJECT	
SECTION 1	- PROPOSED PROJECT	
1.1	Description of Purpose and Need for the Proposed Project	1
1.2	Project History and Background	4
1.3	Alternatives Considered	7
1.4	Preferred Alternative and Phasing Plan	9
	- AFFECTED ENVIRONMENT, POTENTIAL IMPACTS, AND	
MEASURES	S TO MITIGATE IMPACTS DURING CONSTRUCTION	
2.1	Right-of-Way Impacts	11
2.2	Indirect and Cumulative Impacts	13
2.3	Land Use	13
2.4	Social Impacts	14
2.5	Environmental Justice	14
2.6	Maintaining Traffic	15
2.7	Cultural Resources	17
2.8	Air Quality	19
2.9	Noise	22
2.10	Farmland	27
2.11	Contaminated Sites	27
2.12	Endangered and Threatened Species	28
2.13	Fisheries and Wildlife	29
2.14	Stream Crossings	30
2.15	Flood Plains/Hydraulics	31
2.16	Water Quality	32
2.17	Wetlands and Woodlands	34
2.18	Wetland Mitigation	36
2.19	Permits	39
2.20	Measures to Minimize Impacts During Construction	39
PROJECT N	MITIGATION SUMMARY (GREEN SHEET)	43
SECTION 3	– PUBLIC AGENCY INVOLVEMENT	
3.1	Public Involvement	47
3.2	Local Agency Participation	47
SECTION 4	- PROJECT COSTS	
4.1	Project Costs	49

#### **SECTION 5 – CONCLUSION**

	5.1	Conclusion	49
SECT	ION 6 -	- PROGRAMMATIC SECTION 4(f) EVALUATION	
	6.1	Introduction	51
	6.2	Proposed Action	51
	6.3	Section 4(f) Facilities	52
	6.4	Impacts to Section 4(f) Property	54
	6.5	Avoidance Alternatives	55
	6.6	Measures to Minimize Harm	55
	6.7	Coordination	55
	6.8	Conclusion	55
APPE	NDICE	es :	
	Appen	dix A Traffic Analysis	
	Appen	•	
	Appen	· · · · · · · · · · · · · · · · · · ·	ns
	Appen		
	Appen	dix E Agency Coordination and Concurrence Letters	
	Appen	dix F Comparison of Existing and Predicted Noise Levels	
FIGU	RES		
	1.1	Project Location Map	2
	1.2	Existing and Future (2030) Average Daily Traffic	Figure Section
	1.3	Traffic Flow Conditions	Figure Section
	1.4	I-196 Proposed Improvements and Phasing Plan	Figure Section
	2.1	Minority and Low Income Populations	15
	2.2	Former Ionia Avenue Mission Hall	17
	2.3	View of 523 and 529 College Avenue	17
	2.4	Dispersion Modeling Receptors at M-44/Leonard Street	Figure Section
	2.5	Dispersion Modeling Receptors at EB I-96 Ramps/M-37	Figure Section
	2.6	Dispersion Modeling Receptors at I-196/Fuller	Figure Section
	2.7	Study Area and Noise Sensitive Areas	Figure Section
	2.8	Study Area and Noise Receptor Sites	Figure Section
	2.9	Stream Crossing Map	Figure Section
	2.10	Proposed Wetland Mitigation Sites	Figure Section
	2.11	Fish Farm Site	Figure Section
	6.1	Parks and Trails Map	Figure Section
	6.2	Sixth Street Bridge Park	53
	6.3	West Side Riverwalk	54

### **TABLES**

2.1	CO Microscale Analysis Maximum Concentrations	21
2.2	Noise Abatement Criteria (NAC)	23
2.3	Impacted Noise Sensitive Areas	25
2.4	Proposed Noise Abatement and Cost per Unit	26
2.5	Summary of Stream Crossings Within the Project Limits	31
2.6	Summary of Wetlands Impacts	35
4.1	Cost Summary by Segment	49